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Docket 58332-A-PCT-US/JPW/AJM/AHM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Nicole Suci-Foca et al.

U.S. Serial No. : 10/018,677

Filed : December 14, 2001

For : GENERATION OF ANTIGEN SPECIFIC T  
SUPPRESSOR CELLS FOR TREATMENT OF  
REJECTION

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AUG 19 2002

TECH CENTER 1600/2900

1185 Avenue of the Americas  
New York, New York 10036  
August 9, 2002

Assistant Commissioner for Patents  
Washington, D.C., 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants submit herewith an Information Disclosure Statement under 37 C.F.R. §1.56.

In accordance with their duty of disclosure under 37 C.F.R. §1.56 and 37 C.F.R. §1.97, applicants would like to direct the Examiner's attention to the following publications which are listed on the attached Form PTO-1449 (**Exhibit A**). Publications 1-17 were entered in prior application U.S. Serial No. 09/333,809, filed June 15, 1999, to which priority under 35 U.S.C. §120 is claimed. According to 37 C.F.R. §1.98(d), copies of patents or publications of record in such prior application need not accompany this Information Disclosure Statement.

1. Banchereau, J. and R.M. Steinman. (1998) "Dendritic cells and the control of immunity". *Nature* 392:245-252.

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2. Barker, T.D., et al. (1996) "Identification of multiple and distinct CD8<sup>+</sup> T cell suppressor activities: dichotomy between infected and uninfected individuals, evolution with progression of disease, and sensitivity to gamma irradiation". *J. Immunol.* 156:4476-4483.
3. Bennett, S.R.M., et al. (1998) "Help for cytotoxic-T-cell responses is mediated by CD40 signaling". *Nature* 393:478-480.
4. Ciubotariu R., et al. (1998) "Specific suppression of human CD4<sup>+</sup> T helper cell responses to pig MHC antigens by CD8<sup>+</sup>CD28<sup>-</sup> regulatory T cells". *J. Immunol.* 161:5193-5202.
5. Damle, N.K., et al. (1983) "Alloantigen-specific cytotoxic and suppressor T lymphocytes are derived from phenotypically distinct precursors". *J. Immunol.* 131:2296-2300.
6. Groux, H., et al. (1997) "A CD4<sup>+</sup> T-cell subset inhibits antigen-specific T-cell responses and prevents colitis". *Nature* 389:737-742.
7. Jiang, S., et al. (1998) "Induction of MHC-class I restricted human suppressor T cells by peptide priming in vitro". *Human Immunol.* 59:690-699.
8. Lanier, L.L., et al. (1995) "CD80 (B7) and CD86 (B70) provide similar costimulatory signals for T cell proliferation, cytokine production, and generation of CTL". *J. Immunol.* 154:97-105.
9. Liu, Z., et al. (1998) "Specific suppression of T helper

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alloreactivity by allo-MHC class I-restricted CD8<sup>+</sup>CD28<sup>-</sup> T cells". *Int. Immunol.* 10:775-783.

10. Lombardi, G., et al. (1994) "Anergic T cells as suppressor cells in vitro". *Science* 264:1587-1589.
11. Noble, A., Zhao, Z.S., and H. Cantor. (1998) "Suppression of immune responses by CD8 cells. II. Qa-1 on activated B cells stimulate CD8 cell suppression of T helper 2 responses". *J. Immunol.* 160:566-571.
12. Qin, S., Cobbold, S.P., Pope, H., Elliott, J., Kioussis, D., Davies, J., and H. Waldmann. (1993) "Infectious" transplantation tolerance". *Science* 259:974-977.
13. Ridge, J.P., Di Rosa, F., and P. Matzinger. (1998) "A conditioned dendritic cell can be a temporal bridge between a CD4<sup>+</sup> T-helper and a T-killer cell". *Nature* 393:474-478.
14. Schoenberger, S.P., Toes, R.E.M., van der Voort, E.I.H., Offringa, R., and C.J.M. Melief. (1998) "T-cell help for cytotoxic T lymphocytes is mediated by CD40-CD40L interactions". *Nature* 393:480-483.
15. Schwartz R.H. (1992) "Costimulation of T lymphocytes: the role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 production and immunotherapy". *Cell* 71:1065-1068.
16. Tan, P., Anasetti, C., Hansen, J.A., Melrose, J., Brunvand, M., Bradshaw, J., Ledbetter, J.A. and P.S. Linsley. (1993) "Induction of alloantigen-specific hyporesponsiveness in human T lymphocytes by blocking interaction of CD28 with its natural ligand B7/BB1". *J.*

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Exp. Med. 177:165-173.

17. Yang, Y., and J.M. Wilson. (1996) "CD40 ligand-dependent T cell activation: requirement of B7-CD28 signaling through CD40". *Science* 273:1862-1864.

Each of the above-listed publications is listed again on the accompanying PTO Form-1449 (**Exhibit A**). Applicants request that the Examiner make the above-listed publications of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone them at the number provided below.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

Assistant Commissioner for Patents  
Washington, D.C. 20231

Alan J. Morrison  
Reg. No. 37,399

Date

8/9/02

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 58332-A-PCT-US/ JPW/AJM/AHM		Serial No. 10/018,677	
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)					Applicants: Nicole Suci-Foca et al.			
					Filing Date December 14, 2001		Group 1645	
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
<b>FOREIGN PATENT DOCUMENTS</b>								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	Banchereau, J. and R.M. Steinman. (1998) "Dendritic cells and the control of immunity". <i>Nature</i> 392:245-252.							
	Barker, T.D., et al. (1996) "Identification of multiple and distinct CD8 <sup>+</sup> T cell suppressor activities: dichotomy between infected and uninfected individuals, evolution with progression of disease, and sensitivity to gamma irradiation". <i>J. Immunol.</i> 156:4476-4483.							
	Bennett, S.R.M., et al. (1998) "Help for cytotoxic-T-cell responses is mediated by CD40 signaling". <i>Nature</i> 393:478-480.							
	Ciubotariu R., et al. (1998) "Specific suppression of human CD4 <sup>+</sup> T helper cell responses to pig MHC antigens by CD8 <sup>+</sup> CD28 <sup>-</sup> regulatory T cells". <i>J. Immunol.</i> 161:5193-5202.							
	Damle, N.K., et al. (1983) "Alloantigen-specific cytotoxic and suppressor T lymphocytes are derived from phenotypically distinct precursors". <i>J. Immunol.</i> 131:2296-2300.							
	Groux, H., et al. (1997) "A CD4 <sup>+</sup> T-cell subset inhibits antigen-specific T-cell responses and prevents colitis". <i>Nature</i> 389:737-742.							
	Jiang, S., et al. (1998) "Induction of MHC-class I restricted human suppressor T cells by peptide priming in vitro". <i>Human Immunol.</i> 59:690-699.							
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Nicole Suciu-Foca et al.	
				Filing Date December 14, 2001	Group 1645
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
		Lanier, L.L., et al. (1995) "CD80 (B7) and CD86 (B70) provide similar costimulatory signals for T cell proliferation, cytokine production, and generation of CTL". <i>J. Immunol.</i> 154:97-105.			
		Liu, Z., et al. (1998) "Specific suppression of T helper alloreactivity by allo-MHC class I-restricted CD8 <sup>+</sup> CD28 <sup>-</sup> T cells". <i>Int. Immunol.</i> 10:775-783.			
		Lombardi, G., et al. (1994) "Anergic T cells as suppressor cells in vitro". <i>Science</i> 264:1587-1589.			
		Noble, A., Zhao, Z.S., and H. Cantor. (1998) "Suppression of immune responses by CD8 cells. II. Qa-1 on activated B cells stimulate CD8 cell suppression of T helper 2 responses". <i>J. Immunol.</i> 160:566-571.			
		Qin, S., Cobbold, S.P., Pope, H., Elliott, J., Kioussis, D., Davies, J., and H. Waldmann. (1993) "Infectious" transplantation tolerance". <i>Science</i> 259:974-977.			
		Pidge, J.P., Di Rosa, F., and P. Matzinger. (1998) "A conditioned dendritic cell can be a temporal bridge between a CD4 <sup>+</sup> T-helper and a T-killer cell". <i>Nature</i> 393:474-478.			
		Schoenberger, S.P., Toes, R.E.M., van der Voort, E.I.H., Offringa, R., and C.J.M. Melief. (1998) "T-cell help for cytotoxic T lymphocytes is mediated by CD40-CD40L interactions". <i>Nature</i> 393:480-483.			
		Schwartz R.H. (1992) "Costimulation of T lymphocytes: the role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 production and immunotherapy". <i>Cell</i> 71:1065-1068.			
		Tan, P., Anasetti, C., Hansen, J.A., Melrose, J., Brunvand, M., Bradshaw, J., Ledbetter, J.A. and P.S. Linsley. (1993) "Induction of alloantigen-specific hypo-responsiveness in human T lymphocytes by blocking interaction of CD28 with its natural ligand B7/BB1". <i>J. Exp. Med.</i> 177:165-173.			
		Yang, Y., and J.M. Wilson. (1996) "CD40 ligand- dependent T cell activation: requirement of B7-CD28 signaling through CD40". <i>Science</i> 273:1862-1864.			
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